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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Locweld(TM) Bonding Compound
Product type: Epoxy Resin
Company address:
 Henkel Corporation
 1001 Trout Brook Crossing
 Rocky Hill, Connecticut 06067

Item No. : 37531_RESIN
Region: United States
Contact Information:
 Telephone: 860.571.5100
 Emergency telephone: 860.571.5100
 Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Calcium carbonate 471-34-1	10-30	10 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica)	15 mg/m ³ TWA (total dust) 5 mg/m ³ TWA (respirable fraction)	None
Epichlorohydrin-4,4'-isopropylidene diphenol resin 25068-38-6	10-30	None	None	None
Reaction product of epichlorohydrin and bisphenol A 25085-99-8	10-30	None	None	None
Barium sulfate 7727-43-7	10-30	0.5 mg/m ³ TWA 0.5 mg/m ³ TWA as Ba 10 mg/m ³ TWA	0.5 mg/m ³ TWA 0.5 mg/m ³ TWA as Ba 15 mg/m ³ TWA total dust 5 mg/m ³ TWA respirable fraction	None
Iron oxide 1317-61-9	10-30	1 mg/m ³ TWA as Fe	None	None
Silica, amorphous, fumed, crystalline-free 112945-52-5	1-5	6 mg/m ³ TWA	10 mg/m ³ TWA	3 mg/m ³ TWA respirable dust
Bisphenol A, formaldehyde, epichlorohydrin polymer 28906-96-9	1-5	None	None	None
Clay 1332-58-7	1-5	2 mg/m ³ TWA respirable fraction, particulate matter containing no asbestos and < 1% crystalline silica	15 mg/m ³ TWA total dust 5 mg/m ³ TWA respirable fraction	None
Silica, quartz 14808-60-7	0.1-1	0.05 mg/m ³ TWA respirable fraction	0.1mg/m ³ TWA (respirable)	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Paste
Color: Black
Odor: Mild

HEALTH: 2*
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

WARNING:

Item No. : 37531_RESIN

Product name: Locweld(TM) Bonding Compound

MAY CAUSE ALLERGIC SKIN REACTION.
MAY CAUSE EYE AND SKIN IRRITATION.
MAY BE HARMFUL IF SWALLOWED.

Relevant routes of exposure: Eye contact, Ingestion, Inhalation, Skin contact

Potential Health Effects

Inhalation: Mild respiratory tract irritation.
Skin contact: Allergic skin reaction. Moderate skin irritation. Itching. Redness.
Eye contact: Moderate eye irritation. Redness.
Ingestion: May be harmful if swallowed.

Existing conditions aggravated by exposure: Skin disorders. Skin allergies. Eye disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If symptoms develop and persist, get medical attention.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Keep individual calm. Get medical attention if symptoms develop and persist.

Notes to physician: None.

5. FIRE-FIGHTING MEASURES

Flash point: Greater than 204°C (400°F) Open cup

Autoignition temperature: Not available

Flammable/Explosive limits-lower %: Not available

Flammable/Explosive limits-upper %: Not available

Extinguishing media: Foam, dry chemical or carbon dioxide.

Special fire fighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Unusual fire or explosion hazards: In the event of fire, cool tanks with water spray. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.

Hazardous combustion products: Oxides of carbon. Irritating organic fragments.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent product from entering drains or open waters.

Clean-up methods: Remove all ignition sources. Immediately contact emergency personnel. Scrape up as much material as possible. Clean residue with soap and water. Store in a closed container until ready for disposal.

7. HANDLING AND STORAGE

Handling:	Keep away from heat, spark and flame. Do not breathe mist or vapors. Keep container closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage:	Store in original container until ready to use. Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
Incompatible products:	Refer to Section 10.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.
Respiratory protection:	Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.
Skin protection:	Chemical resistant, impermeable gloves.
Eye/face protection:	Chemical splash goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	Black
Odor:	Mild
Vapor pressure:	Not available
pH:	Not applicable
Boiling point/range:	Greater than 149°C (300°F)
Melting point/range:	Not available
Specific gravity:	1.82
Vapor density:	Not available
Evaporation rate:	Not available
Solubility in water:	Insoluble
Partition coefficient (n-octanol/water):	Not available
VOC content:	0% (value for resin and hardener together)

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	None
Incompatibility:	Strong acids. Strong bases. Strong oxidizers.
Conditions to avoid:	Excessive heat. Storage with incompatible materials.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Calcium carbonate 471-34-1	No	No	No
Epichlorohydrin-4,4'-isopropylidene diphenol resin 25068-38-6	No	No	No
Reaction product of epichlorohydrin and bisphenol A 25085-99-8	No	No	No
Barium sulfate 7727-43-7	No	No	No
Iron oxide 1317-61-9	No	No	No
Silica, amorphous, fumed, crystalline-free 112945-52-5	No	No	No
Bisphenol A, formaldehyde, epichlorohydrin polymer 28906-96-9	No	No	No
Clay 1332-58-7	No	No	No
Silica, quartz 14808-60-7	Known Carcinogen	Group 1	Yes

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Calcium carbonate 471-34-1	Nuisance dust
Epichlorohydrin-4,4'-isopropylidene diphenol resin 25068-38-6	Allergen, Irritant
Reaction product of epichlorohydrin and bisphenol A 25085-99-8	Allergen, Irritant
Barium sulfate 7727-43-7	Lung
Iron oxide 1317-61-9	Cardiac, Central nervous system, Irritant, Kidney, Liver, Lung
Silica, amorphous, fumed, crystalline-free 112945-52-5	Nuisance dust
Bisphenol A, formaldehyde, epichlorohydrin polymer 28906-96-9	Allergen, Irritant
Clay 1332-58-7	Nuisance dust
Silica, quartz 14808-60-7	Some evidence of carcinogenicity, Lung, Immune system

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose according to EPA and local governmental regulations.

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

U.S. Department of Transportation Ground (49 CFR):

Item No. : 37531_RESIN

Product name: Locweld(TM) Bonding Compound

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None
Marine pollutant: None known

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification: Bisphenol A diglycidyl ether (CAS# 1675-54-3).

CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard
CERCLA/SARA 313: None above reporting de minimus.

California Proposition 65: This product contains a chemical known to the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class: D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Revised to new format.

Prepared by: Gary Pierson, Sr. Product Safety and Regulatory Affairs Specialist

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